

Recombinant Human CCL14 protein

Cat. No. CCL14-607H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CCL14 protein (66 a.a.) was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	66
Description	Human CCL14 is belonging to the CC chemokine family. It is encoded by the gene CCL14. CCL14 has two isoforms, CCL14a (HCC-1) and CCL14b (HCC-3). The sequence of HCC-3 differs from HCC-1 as follow: 27-27 R→ QTGGKPKVVKIQLKLVG. CCL14 was first isolated from the hemofiltrate of human patients with chronic renal failure. The N-terminal processed forms HCC-1(3-74), HCC-1(4-74) and HCC-1(9-74) are produced in small amounts by proteolytic cleavage after secretion in blood. CCL14 promotes chemotaxis of T lymphocytes, monocytes and eosinophils, and inhibits infection of M-tropic human immunodeficiency virus type 1 and is a ligand for CCR1, CCR3 and CCR5. Recombinant human CCL14 (66 a.a.) contains 66 amino acid residues and activation of the HCC 1/CCL14a precursor to active peptide is mediated by the urokinase type plasminogen activator or plasmin.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 2 × PBS, pH 7.4, 5 % trehalose.
Bio-activity	Fully biologically active when compared to standard. The biological activity

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	determined by a chemotaxis bioassay using human monocytes is in a concentration range of 5.0-20 ng/ml.
Molecular Mass	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 66 amino acids.
AA Sequence	GPYHPSECCFTYTTYKIPRQRIMDYETNSQCSKPGIVFITKRGHSVCTNPSDKWVQ DYIKDMKEN
Endotoxin	Less than 1 EU/μg of rHuHCC-1, 66a.a./CCL14 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	CCL14
Official Symbol	CCL14
Synonyms	CCL14; chemokine (C-C motif) ligand 14; SCYA14, small inducible cytokine subfamily

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A (Cys Cys), member 14; C-C motif chemokine 14; CKb1; HCC 1; HCC 3; MCIF; NCC 2; SCYL2; chemokine CC-3; new CC chemokine 2; chemokine CC-1/CC-3; hemofiltrate CC chemokine 1; small-inducible cytokine A14; small inducible cytokine subfamily A (Cys-Cys), member 14; CC-1; CC-3; CKB1; NCC2; SY14; HCC-1; HCC-3; NCC-2; SCYA14; HCC-1(1-74); HCC-1/HCC-3; FLJ16015;

Gene ID	6358
mRNA Refseq	NM_032962
Protein Refseq	NP_116738
MIM	601392
UniProt ID	Q16627